Jia-Ming Liu

List of Publications by Year
in descending order

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75 papers	3,274 citations	172207 29 h-index	155451 55 g-index
76 all docs	76 docs citations	76 times ranked	1760 citing authors

#	Article	IF	Citations
1	Chaotic Lidar. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 991-997.	1.9	321
2	Chaotic radar using nonlinear laser dynamics. IEEE Journal of Quantum Electronics, 2004, 40, 815-820.	1.0	238
3	Period-one oscillation for photonic microwave transmission using an optically injected semiconductor laser. Optics Express, 2007, 15, 14921.	1.7	185
4	Four-wave mixing and optical modulation in a semiconductor laser. IEEE Journal of Quantum Electronics, 1994, 30, 957-965.	1.0	145
5	Synchronized chaotic optical communications at high bit rates. IEEE Journal of Quantum Electronics, 2002, 38, 1184-1196.	1.0	135
6	Photonic Microwave Applications of the Dynamics of Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1198-1211.	1.9	135
7	Tunable Narrow-Linewidth Photonic Microwave Generation Using Semiconductor Laser Dynamics. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 1025-1032.	1.9	134
8	Characteristics of Period-One Oscillations in Semiconductor Lasers Subject to Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 974-981.	1.9	118
9	Nonlinear dynamics of a semiconductor laser with delayed negative optoelectronic feedback. IEEE Journal of Quantum Electronics, 2003, 39, 562-568.	1.0	104
10	Radio-over-fiber AM-to-FM upconversion using an optically injected semiconductor laser. Optics Letters, 2006, 31, 2254.	1.7	93
11	Supercontinuum generation in highly nonlinear fibers using amplified noise-like optical pulses. Optics Express, 2014, 22, 4152.	1.7	89
12	Lidar detection using a dual-frequency source. Optics Letters, 2006, 31, 3600.	1.7	88
13	Extremely confined terahertz surface plasmon-polaritons in graphene-metal structures. Applied Physics Letters, 2013, 103, .	1.5	82
14	Linewidth Sharpening via Polarization-Rotated Feedback in Optically Injected Semiconductor Laser Oscillators. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500807-1500807.	1.9	64
15	Limit-Cycle Dynamics with Reduced Sensitivity to Perturbations. Physical Review Letters, 2014, 112, 023901.	2.9	63
16	Diverse waveform generation using semiconductor lasers for radar and microwave applications. IEEE Journal of Quantum Electronics, 2004, 40, 682-689.	1.0	56
17	Ambiguity functions of laser-based chaotic radar. IEEE Journal of Quantum Electronics, 2004, 40, 1732-1738.	1.0	53
18	Microwave frequency division and multiplication using an optically injected semiconductor laser. IEEE Journal of Quantum Electronics, 2005, 41, 1142-1147.	1.0	53

#	Article	IF	Citations
19	Optical generation of a precise microwave frequency comb by harmonic frequency locking. Optics Letters, 2007, 32, 1917.	1.7	53
20	Injection locking and synchronization of periodic and chaotic signals in semiconductor lasers. IEEE Journal of Quantum Electronics, 2003, 39, 269-278.	1.0	49
21	Mesoscopic chaos mediated by Drude electron-hole plasma in silicon optomechanical oscillators. Nature Communications, 2017, 8, 15570.	5.8	47
22	Synchronization properties of two self-oscillating semiconductor lasers subject to delayed optoelectronic mutual coupling. Physical Review E, 2006, 73, 047201.	0.8	46
23	Nonlinear Dynamics of Semiconductor Lasers With Mutual Optoelectronic Coupling. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 936-943.	1.9	43
24	Frequency Modulation on Single Sideband Using Controlled Dynamics of an Optically Injected Semiconductor Laser. IEEE Journal of Quantum Electronics, 2006, 42, 699-705.	1.0	43
25	Multistability in a semiconductor laser with optoelectronic feedback. Optics Express, 2007, 15, 572.	1.7	42
26	Surface polar optical phonon scattering of carriers in graphene on various substrates. Applied Physics Letters, 2013, 103, .	1.5	41
27	Dynamics Scenarios of Dual-Beam Optically Injected Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2011, 47, 762-769.	1.0	38
28	Terahertz optical properties of multilayer graphene: Experimental observation of strong dependence on stacking arrangements and misorientation angles. Physical Review B, 2012, 86, .	1.1	38
29	Experimental synchronization of mutually coupled semiconductor lasers with optoelectronic feedback. IEEE Journal of Quantum Electronics, 2005, 41, 1333-1340.	1.0	35
30	Plasmonics in Topological Insulators. Nanomaterials and Nanotechnology, 2014, 4, 13.	1.2	27
31	Novel photonic applications of nonlinear semiconductor laser dynamics. Optical and Quantum Electronics, 2008, 40, 83-95.	1.5	26
32	Terahertz Optoelectronic Property of Graphene: Substrate-Induced Effects on Plasmonic Characteristics. Applied Sciences (Switzerland), 2014, 4, 28-41.	1.3	26
33	Effects of message encoding and decoding on synchronized chaotic optical communications. IEEE Journal of Quantum Electronics, 2003, 39, 1468-1474.	1.0	25
34	High-power noise-like pulse generation using a 156-Âµm all-fiber laser system. Optics Express, 2015, 23, 18256.	1.7	24
35	Dynamics of semiconductor lasers with bidirectional optoelectronic coupling: Stability, route to chaos, and entrainment. Physical Review E, 2004, 70, 046216.	0.8	21
36	Complete phase and amplitude synchronization of broadband chaotic optical fields generated by semiconductor lasers subject to optical injection. Physical Review E, 2005, 71, 046216.	0.8	16

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37	Synchronization of mutually coupled systems. Optics Communications, 2006, 261, 86-90.	1.0	16
38	Dynamical Characteristics of a Dual-Beam Optically Injected Semiconductor Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500606-1500606.	1.9	16
39	High-power, octave-spanning supercontinuum generation in highly nonlinear fibers using noise-like and well-defined pump optical pulses. OSA Continuum, 2018, 1, 851.	1.8	16
40	Tunable Oscillations in Optically Injected Semiconductor Lasers With Reduced Sensitivity to Perturbations. Journal of Lightwave Technology, 2014, 32, 3749-3758.	2.7	15
41	Effects of the Gain Saturation Factor on the Nonlinear Dynamics of Optically Injected Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2014, 50, 158-165.	1.0	14
42	Dynamics Maps and Scenario Transitions for a Semiconductor Laser Subject to Dual-Beam Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1501108-1501108.	1.9	13
43	Coupled surface plasmon modes of graphene in close proximity to a plasma layer. Applied Physics Letters, 2013, 103, 201104.	1.5	13
44	Terahertz Frequency-Dependent Carrier Scattering Rate and Mobility of Monolayer and AA-Stacked Multilayer Graphene. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 122-129.	1.9	12
45	Enhanced graphene plasmon waveguiding in a layered grapheneâˆ’metal structure. Applied Physics Letters, 2014, 105, .	1.5	12
46	Unidirectionally coupled synchronization of optically injected semiconductor lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 918-926.	1.9	11
47	Radio-over-fiber transmission from an optically injected semiconductor laser in period-one state. , 2007, , .		11
48	Deep brain light stimulation effects on glutamate and dopamine concentration. Biomedical Optics Express, 2015, 6, 23.	1.5	11
49	Stable Periodic Dynamics of Reduced Sensitivity to Perturbations in Optically Injected Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 601-608.	1.9	11
50	Linewidth characteristics of period-one dynamics induced by optically injected semiconductor lasers. Optics Express, 2020, 28, 14677.	1.7	10
51	Chaotic communications using synchronized semiconductor lasers with optoelectronic feedback. Comptes Rendus Physique, 2004, 5, 657-668.	0.3	9
52	Frequency-stabilized limit-cycle dynamics of an optically injected semiconductor laser. Applied Physics Letters, 2014, 105, 011122.	1.5	9
53	Ultra-broadband supercontinuum covering a spectrum from visible to mid-infrared generated by high-power and ultrashort noise-like pulses. Optics Express, 2021, 29, 26775.	1.7	9
54	Optimization of double-layer graphene plasmonic waveguides. Applied Physics Letters, 2014, 105, 061116.	1.5	8

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55	Adaptive outer synchronization of delay-coupled nonidentical complex networks in the presence of intrinsic time delay and circumstance noise. Nonlinear Dynamics, 2015, 80, 117-128.	2.7	8
56	Tunable photonic microwave oscillator self-locked by polarization-rotated optical feedback. , 2012, , .		6
57	Semiconductor Laser Dynamics for Novel Applications. Understanding Complex Systems, 2009, , 341-354.	0.3	5
58	Symbolic dynamics-based error analysis on chaos synchronization via noisy channels. Physical Review E, 2014, 90, 012908.	0.8	5
59	Family of graphene-assisted resonant surface optical excitations for terahertz devices. Scientific Reports, 2016, 6, 35467.	1.6	4
60	Dispersion of Surface Plasmon Polaritons on a Metallic Grating. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 244-250.	1.9	4
61	Harmonic Analysis of Limit-Cycle Oscillations of an Optically Injected Semiconductor Laser. IEEE Journal of Quantum Electronics, 2014, 50, 1-8.	1.0	3
62	Suppression of Intensity and Frequency Noise at Low-Sensitivity Operating Points of Period-One Dynamics of Optically Injected Semiconductor Lasers. IEEE Access, 2019, 7, 90357-90367.	2.6	3
63	Broadband Transmission Over Injection-Locked Optical OFDM Systems: Theory and Design. Journal of Optical Communications and Networking, 2013, 5, 475.	3.3	2
64	Performance of Synchronized Chaotic Optical Communication Systems. , 2006, , 341-378.		2
65	Dynamics and Synchronization of Semiconductor Lasers for Chaotic Optical Communications. , 2006, , 285-340.		2
66	Effects of Linewidth Enhancement Factor on the Microwave Linewidth of the Period-one Oscillations of Optically Injected Semiconductor Lasers. Optics Letters, 2022, 47, 1166-1169.	1.7	2
67	Dual-frequency multifunction lidar. , 2007, , .		1
68	Dynamical properties of semiconductor lasers subject to optoelectronic feedback and bidirectional coupling. , 2003, , .		0
69	Bidirectional synchronization of semiconductor lasers with optoelectronic feedback. , 2005, , .		0
70	Depletion dynamics for stimulated emission depletion (STED) microscopy. , 2008, , .		0
71	Injection-locked optical orthogonal frequency-division multiplexing for radio-over-fiber communications. , 2013, , .		0
72	Generation of an octave-spanning supercontinuum in highly nonlinear fibers pumped by noise-like pulses. Proceedings of SPIE, 2014, , .	0.8	0

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73	Fiber dispersion effects in injection-locked optical OFDM systems. Optical and Quantum Electronics, 2015, 47, 3091-3100.	1.5	0
74	Doppler Lidar Using Coherently Locked Dual Frequencies. , 2005, , .		0
75	Microwave Frequency Switching of an Optically Injected Semiconductor Laser. , 2005, , .		0